

Remarks

Applicants respectfully request reconsideration of this application as amended.

Claims 1, 12 and 21 have been amended. Claims 4 and 15 have been cancelled. Therefore, claims 1-3, 5-14 and 16-27 are presented for examination.

Claims 1, 4, 5, 8-12, 15, 16, 19, and 20 stand rejected under 35 U.S.C. §102(e) as being anticipated by Ying (U.S. Patent No. 6,697,020). Applicants submit that the present claims are patentable over Ying.

Ying discloses a combined display and satellite antenna formed as a multi-layer structure having a liquid crystal (LCD) layer at its upper level. Hence, the display is formed by the uppermost layer of liquid crystals. A light-guiding layer is positioned immediately under the display layer to provide illumination for the display. The light-guiding layer is connected to a set of light-emitting diodes (LED) or other sources of light, which are adapted to provide back illumination of the display through the light-guiding layer. A third layer provides a patch antenna element, which is made of a conductive material such as copper, silver or gold. The patch antenna element is supported by a dielectric substrate layer, which is followed by an antenna feeding circuit layer. See Ying at col. 4, ll. 40-60.

Claim 1 of the present application recites an antenna located on a top layer of a display. Ying does not disclose an antenna located on a top layer of a display. Instead, Ying discloses a combined display/antenna where a third layer of the combination, below the uppermost LCD layer, is a patch antenna element. As a result, the antenna in Ying is not mounted on a top layer of the display. Consequently, the claim 1 is patentable over Ying.

Claims 2, 3 and 5-11 depend from claim 1 and include additional features. Therefore, claims 2, 3 and 5-11 are also patentable over Ying.

Claim 12 recites mounting an antenna on a top layer of a display of a computing apparatus. Thus, for the reasons described above with respect to claim 1, claim 12 is also patentable over Ying. Since claims 13, 14 and 16-20 depend from claim 12 and include additional features, claims 13, 14 and 16-20 are also patentable over Ying.

Claim 21 recites an antenna mounted on a top layer of a display. For the reasons described above with respect to claim 1, claim 21 is also patentable over Ying. Because claims 22-27 depend from claim 21 and include additional features, claims 22-27 are also patentable over Ying.

Claims 2, 3, 13, and 14 stand rejected under 35 U.S.C. §103(a) as being unpatentable over Ying as applied to claims 1 and 12 above, and further in view of Kuroe et al. (U.S. Patent No. 6,028,748). Applicants submit that the present claims are patentable over Ying even in view of Kuroe.

Kuroe discloses a magnetic head unit of the present invention is provided with a magnetic head having a magnetic impedance element, and a head suspension for suspending the magnetic head is provided with a matching transmission line of one-fourth wavelength for transmitting a high-frequency signal output from the magnetic head. See Kuroe at Abstract. Nonetheless, Kuroe does not disclose or suggest an antenna mounted on a top layer of a display. As discussed above, Ying does not disclose or suggest an antenna mounted on a top layer of a display. Thus, any combination of Ying and Kuroe also would not disclose or suggest an antenna mounted on a top layer of a display. Accordingly, the present claims are patentable over Ying in view of Kuroe.

Claims 6, 7, 17, 18, 21, 26, and 27 stand rejected under 35 U.S.C. §103(a) as being unpatentable over Ying as applied to claims 1 and 12 above, and further in view of Carson et

al. (U.S. Patent No. 5,705,855). Applicants submit that the present claims are patentable over Ying even in view of Carson.

Carson discloses an integrated circuit for attaching to a glass substrate that includes an integrated circuit die having circuitry formed thereon. The integrated circuit has cavities formed in a first surface, and metal layers formed adjacent to the integrated circuit die and within the cavities are coupled to the circuitry. Conductive bumps, which are formed from a material that adheres to glass, are deposited within the cavities and electrically coupled to the circuitry via the metal layers. See Carson at Abstract.

Nevertheless, Carson does not disclose or suggest an antenna mounted on a top layer of a display. As discussed above, Ying does not disclose or suggest an antenna mounted on a top layer of a display. Therefore, any combination of Ying and Carson also would not disclose or suggest an antenna mounted on a top layer of a display. Consequently, the present claims are patentable over Ying in view of Carson.

Claims 22-25 stand rejected under 35 U.S.C. §103(a) as being unpatentable over Ying and Carson as applied to claim 21, and further in view of Zuckerman (U.S. Patent No. 5,802,463). Applicants submit that the present claims are patentable over Ying and Carson even in view of Zuckerman.

Zuckerman discloses a very low intermediate frequency (IF) transceiver for use in a wireless LAN, cellular telephone, cordless telephone, and other radio transceiver applications. The transceiver directly down-converts the RF signal to lower frequency such as a very low IF signal, which can be handled by transceiver components advantageously integrated with the communication control system such as an MAC or serial communications

controller. See Zuckerman at Abstract. However, Zuckerman does not disclose or suggest an antenna mounted on a top layer of a display.

As discussed above, both Ying and Carson fail to disclose or suggest an antenna mounted on a top layer of a display. Therefore, any combination of Ying, Carson and Zuckerman also would not disclose or suggest an antenna mounted on a top layer of a display. Consequently, the present claims are patentable over the combination of Ying, Carson and Zuckerman.

Applicants respectfully submit that the rejections have been overcome and that the claims are in condition for allowance. Accordingly, applicants respectfully request the rejections be withdrawn and the claims be allowed.


The Examiner is requested to call the undersigned at (303) 740-1980 if there remains any issue with allowance of the case.

Please charge any shortage to our Deposit Account No. 02-2666.

Respectfully submitted,

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